

## 1 Introduction

This document describes the Printhead class, which wraps the program printhead to provide information about the image headers. This will be used in the Dataset object.

## 2 Input

All this takes as input is a frame set in setImage().

## 3 Output

The following results are produced:

```
{'exposure_time': 5.0,  
  'distance': 170.0,  
  'phi_start': 290.0,  
  'phi_end': 291.0,  
  'epoch': 1096203695.0,  
  'date': 'Sun Sep 26 14:01:35 2004',  
  'wavelength': 0.979660,  
  'detector': 'adsc'}
```

## 4 Updates

### 4.1 15/JUN/06

Added a HeaderCache singleton to record the image headers as they are read, so that when they are asked for again the results come back much more rapidly.

### 4.2 13/JUL/06

This is too slow - there is also something wrong with the application xia2find, since this takes far too long...

Actually I am not sure that this is the best way to go - I suspect that I need to write this in Python to access the images directly.